

PRECIPITATION IN TENNESSEE RIVER BASIN

ANNUAL 1973

SUMMARY

(All Figures are in Inches)

AVERAGE PRECIPITATION

Above Chattanooga	(51.11)	62.21
Below Chattanooga	(52.10)	68.48
Entire Basin	(51.58)	65.10

MOST RAIN

Coweeta No. 31, N.C.	(92.38)	113.92
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LEAST RAIN

Trade, Tenn.		37.90
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HIGHEST 24-HOUR RAIN

Kimbrough Cemetery, Ala.		9.10
Rosman, N.C.		9.10

NATURAL STREAMFLOW

Above Knoxville	(19.50)	25.23
Above Chattanooga	(23.58)	31.80

Number in parentheses is long-term mean.

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PRECIPITATION IN TENNESSEE RIVER BASIN

ANNUAL 1973

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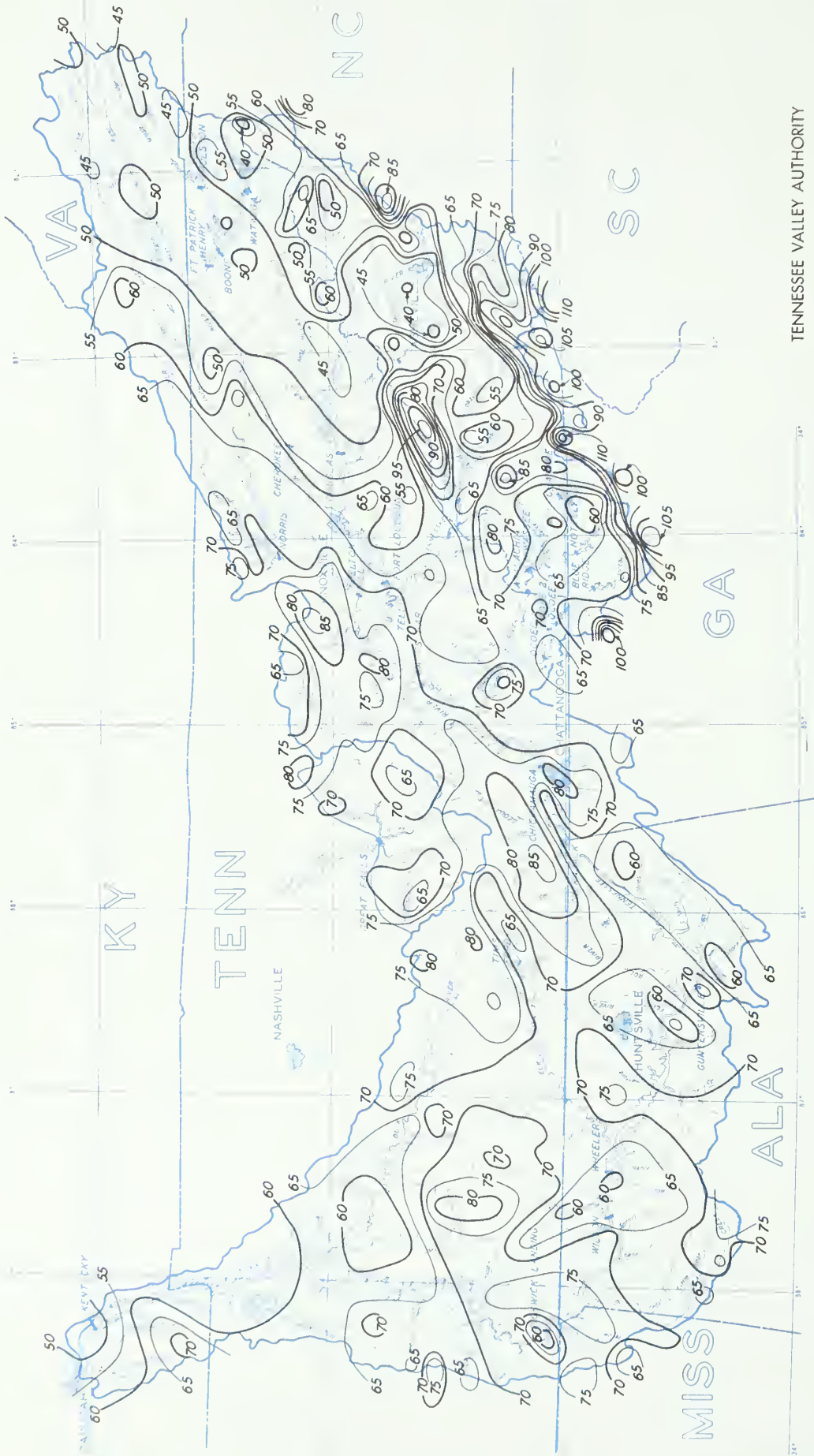
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PRECIPITATION
IN
TENNESSEE RIVER BASIN

REPORT NO. 0-243-A73





TENNESSEE VALLEY AUTHORITY
DIVISION OF WATER CONTROL PLANNING

TENNESSEE RIVER BASIN

PRECIPITATION - YEAR 1973

SCALE 0 10 20 40 50 MILES

SYMBOLS:

- Rainfall in Inches
- - - State Lines
- Dams

PRECIPITATION IN TENNESSEE RIVER BASIN

ANNUAL 1973

Precipitation

The year 1973 was the wettest over the Tennessee River Basin in 84 years of record. Rainfall averaged 65.10 inches, 13.52 inches higher than the 75-year (1890-1964) mean. Average annual precipitation has ranged from 37.86 inches in 1941 to 65.10 inches in 1973. The wettest year prior to 1973 was 1957 when annual precipitation amounted to 64.62 inches. Average precipitation above and below Chattanooga during 1973 was 11.10 inches and 16.38 inches higher than the long-term mean, respectively. These amounts are listed in the summary on the cover of this report. The frontispiece map shows the 1973 annual distribution of precipitation over the Basin.

The index map following page 15 shows the station locations, and Tables 1 through 10 on pages 21 to 59 show monthly and annual precipitation for stations listed in upstream order.

Monthly precipitation in the Basin was above the 75-year mean during nine months of the year; only January, February, and August had total precipitation below the mean. The driest month, August, had 2.97 inches of rain. October was almost as dry, with 3.03 inches. The wettest month was March, with 11.37 inches.

The maximum annual precipitation during 1973, 113.92 inches, was reported at Station No. 31, Coweeta, North Carolina, in the upper Little Tennessee River watershed. This amount is 21.54 inches higher than the long-term mean at this station. Nearly 100 stations in the Valley with 20 or more years of record experienced their highest annual precipitation amounts of record. Most of these record-high annual amounts occurred in the Tennessee River area above Pickwick Dam and in the Duck, Elk, and lower Clinch River watersheds. Beech Grove, Tennessee, located in the Duck River watershed near Manchester, recorded the widest variation from normal. The annual total, 83.86 inches, was 160 percent of the long-term mean of 52.51 inches. Pleasant Grove School, Alabama, near Bridgeport, had 159 percent of its normal. The maximum monthly precipitation recorded during the year, 20.93 inches in March, fell at Pollards Mill, Tennessee, near Pickwick Dam; nearby Youngs Store, Alabama, had 20.90 inches and Victory, Tennessee, recorded 19.94 inches, also in March. In addition nine other stations in the Basin recorded more than 18 inches of precipitation in the same month. The highest precipitation in a 24-hour period at any station during the year was 9.10 inches at both Kimbrough Cemetery, Alabama, in March and at Rosman, North Carolina, in May.

The minimum annual precipitation in the Basin during 1973, 37.90 inches, fell at the Trade, Tennessee, radio gage* located about 10 miles south of Mountain City. This amount was slightly less than the mean of about 40 inches for this station. The minimum monthly precipitation during the year was 0.34 inch during August at Tims Ford Dam, Tennessee, in the Elk River watershed. About 25 other stations in the Basin also reported less than an inch of rain during August.

*Radio gages do not record very low amounts of precipitation; therefore, monthly and annual precipitation totals shown in this report for those gages may be slightly less than actually occurred.

The 10 highest and lowest amounts recorded in the Tennessee River Basin during the year are listed in the following table:

1973 ANNUAL PRECIPITATION
AT 10 WETTEST AND 10 DRIEST STATIONS
IN THE TENNESSEE RIVER BASIN

<u>Highest Amounts</u>		<u>Lowest Amounts</u>	
<u>Station</u>	<u>1973 Annual Precipitation inches</u>	<u>Station</u>	<u>1973 Annual Precipitation inches</u>
Coweeta No. 31, N.C.	113.92	Trade, Tenn.	37.90
Suches, Ga.	107.59	Chambers Mountain, N.C.	38.89
Cedar Mountain, N.C.	104.98	Parker Branch, N.C.	39.40
Flat Top, Ga.	103.80	Ivy, N.C.	40.38
Highlands, N.C.	103.13	Nolichucky Dam, Tenn.	40.90
Tray Mountain, Ga.	100.57	Asheville, N.C. (TVA)	41.04
Gloucester Gap, N.C.	100.05	Rockyface Mountain, N.C.	42.22
Rosman, N.C.	97.51	Groseclose, Va.	42.59
Neel Gap, Ga.	96.54	Weaverville, N.C.	43.23
Newfound Gap, N.C. --Tenn.	96.40	Asheville, N.C. (NWS)	43.37

Among the watershed subdivisions, the maximum annual average precipitation for 1973 was 92.6 inches over the French Broad River area above Blantyre, North Carolina, 19 inches higher than the 35-year mean. Fifteen of the watershed subdivisions shown on page 11 recorded their highest annual rainfall of record and nine others recorded their second highest. The minimum annual average for 1973, 46.9 inches, fell over the French Broad River area from Asheville to Newport and was 1.8 inches higher than the 35-year mean.

Precipitation and runoff data for the year above gaging sites on 14 selected watersheds are shown on page 14. Other tabulations and charts on pages 12 and 13 show selected data on precipitation and runoff.

Snow

Snowfall over the Basin ranged from traces at some locations up to almost 50 inches in the eastern mountains. Highest amounts of snow fell in January and December and small amounts fell in February and March. In April, October, and November scattered small amounts were reported in the higher elevations.

In the eastern part of the Basin, snowfall averaged about 10 inches, with the mountainous areas of the northeast getting the highest amounts. The maximum for the year, 48 inches, was reported at McKinney Gap, North Carolina, near Burnsville. In the western part of the Basin, snowfall averaged about 3 inches, with Neapolis, Tennessee, near Columbia, reporting the maximum of 9 inches. In the Caney Fork above Great Falls Dam, snowfall averaged almost 8 inches; Monterey reported the maximum amount, 32.5 inches.

Streamflow

Streamflow in the Basin above Chattanooga in 1973 was above normal during March, April, May, June, July, November, and December. Streamflow was near normal for August and below normal for January, February, September, and October.

Streamflow from the Tennessee River watershed above Chattanooga and above Knoxville and a comparison with the long-term means are shown on the cover and in the following table:

ANNUAL NATURAL STREAMFLOW IN INCHES - 1973

	<u>Water Year</u>		<u>Calendar Year</u>	
	<u>1973</u>	<u>Mean</u>	<u>1973</u>	<u>Mean</u>
Tennessee River at				
Knoxville	28.33	19.49	25.23	19.50
Chattanooga	33.73	23.56	31.80	23.58

Other tabulations and charts on pages 12, 13, and 14 show rainfall-runoff data for selected watersheds and comparisons with past records.

Evaporation

Data observed at the TVA evaporation stations are shown in the table on page 15.

Temperatures

Air temperatures over the Basin averaged below normal during six months of the year. In June and December temperatures were about normal, and in March, September, October, and November above normal. Air temperatures for the entire Basin averaged about six degrees below normal for the year.

Intense Rainfall

Maximum rainfall intensities for periods of 1, 3, 6, 12, and 24 hours for the years 1936-1973 are shown in a table on page 5. 1973 intensities did not exceed previous maximum amounts.

Monthly Reports

Monthly issues of the bulletin "Precipitation in Tennessee River Basin" contain tabulations of daily precipitation at stations located in or near the Basin together with isohyetal maps of monthly precipitation, maps showing mean monthly precipitation on watershed subdivisions, descriptions of storms, tabulations of rainfall and runoff on selected watersheds, intense rainfall data, and other information.

Special Reports

Reports on special storm investigations were included in monthly issues of this publication during 1973. These reports and the date of the issue in which they appear are as follows:

	<u>Monthly Bulletin Containing Report</u>
Ice Storm of January 7-8 in North Alabama, North Georgia, and Southeast Tennessee Areas	January
High Winds of January 21, 1973, in East Tennessee	January
Storm and Floods of March 14-18, 1973, in the Tennessee River Basin	March
Tornado of April 19, 1973, near Paducah, Kentucky	April
Storm of April 19-20, 1973, in Beech River Watershed	April
Tornado of April 24, 1973, in Lincoln County, Tennessee	April
Hailstorm of April 25, 1973, in Vicinity of Muscle Shoals, Alabama	April
Intense Rainfall of April 26, 1973, at Lookout Mountain, Tennessee	April
Tornado and Windstorm of May 8, 1973, in Vicinity of Albertville, Alabama	May
Tornado and Windstorm of May 19, 1973, from Scottsboro to Fort Payne, Alabama	May
Tornado and High Winds of May 19, 1973, at Hazel Green, Alabama	May
Tornado and Windstorm on May 19, 1973, in Lincoln County, Tennessee	May
Tornado of May 27, 1973, in Vicinity of Arab, Alabama	May
Storm and Floods of May 27-28, 1973, in the Tennessee River Basin	May
Earthquake of October 30, 1973, in Blount-Knox County, Tennessee	October
Tornado and Windstorm of November 15, 1973, in Vicinity of Rainsville, Alabama	November
Tornadoes of November 27, 1973, in Vicinity of Huntsville, Alabama	November
Windstorm of November 27, 1973, in Northeast Hamilton County, Tennessee	November
Storm and Floods of November 27-28, 1973	November
Earthquake of November 30, 1973, in East Tennessee	November
Windstorms of December 13, 1973, in Cocke, Greene, Polk, and Rhea Counties, Tennessee	December

ANNUAL MAXIMUM RAINFALL INTENSITIES
IN TENNESSEE RIVER BASIN
1936-1973

Each tabular value shows maximum rainfall in inches occurring within the time period shown at head of the column. The number in parentheses is the station where this occurred.

Year	Inches for				
	1 Hour	3 Hours	6 Hours	12 Hours	24 Hours
1936	3.00 (34)	4.79 (60)	5.62 (60)	6.90 (60)	8.85 (60)
1937	2.64 (90)	3.70 (29)	4.40 (70)	6.16 (283)	7.68 (283)
1938	2.61 (179)	3.77 (101)	6.78 (179)	7.91 (179)	9.10 (179)
1939	3.52 (207)	6.81 (24)	6.81 (24)	6.81 (24)	8.57 (397)
1940	3.08 (142)	4.00 (190)	6.12 (190)	9.02 (190)	11.60 (115)
1941	3.65 (391)	3.87 (470)	3.98 (42)	4.00 (50)	5.23 (563)
1942	2.95 (520B)	4.80 (419)	4.80 (419)	5.79 (283)	9.53 (285)
1943	3.19 (275)	4.36 (275)	4.75 (58)	4.88 (275)	6.70 (566)
1944	4.88 (505)	8.06 (505)	8.16 (505)	8.21 (505)	8.36 (505)
1945	2.45 (503)	4.03 (605)	4.43 (521)	6.24 (154)	7.65 (154)
1946	2.89 (651)	3.92 (403)	5.30 (403)	6.53 (505)	7.57 (384)
1947	2.41 (101)	5.82 (538)	5.82 (538)	5.82 (538)	5.82 (538)
1948	2.70 (283)	4.00 (15)	4.41 (446)	5.73 (191)	7.30 (509)
1949	3.55 (679)	4.57 (488)	5.72 (254)	7.67 (254)	9.94 (233A)
1950	2.60 (327)	3.53 (69)	4.63 (233A)	6.23 (233A)	9.20 (233A)
1951	4.00 (210)	4.80 (407)	4.80 (407)	6.25 (109)	7.34 (111)
1952	3.83 (575)	4.85 (575)	5.70 (575)	6.76 (575)	7.54 (115)
1953	3.10 (691)	4.65 (153)	4.65 (153)	4.93 (233A)	6.90 (200C)
1954	3.58 (154)	4.29 (438)	5.52 (438)	8.87 (393)	8.87 (393)
1955	3.18 (704A)	3.72 (255)	4.61 (154)	6.25 (233A)	8.56 (462A)
1956	3.00 (381)	4.73 (682)	4.73 (682)	4.73 (682)	7.53 (17A)
1957	3.51 (385)	3.75 (738)	4.70 (268)	5.05 (190)	7.60 (190)
1958	3.00 (135)	3.97 (522)	5.49 (135)	5.49 (135)	6.51 (109)
1959	3.50 (506)	6.34 (506)	6.34 (506)	6.34 (506)	8.7 (742)
1960	3.43 (711)	7.34 (711)	7.45 (711)	7.45 (711)	7.45 (711)
1961	2.58 (624)	3.50 (249)	3.66 (575)	5.63 (286)	10.19 (279A)
1962	3.52 (75)	4.54 (276B)	4.54 (276B)	5.30 (277)	7.43 (191)
1963	3.45 (762C)	6.95 (382A)	6.95 (382A)	7.27 (581)	7.57 (762A)
1964	2.44 (788)	3.50 (462)	4.55 (201A)	6.10 (280)	13.10 (286)
1965	3.10 (228)	5.65 (169)	5.65 (169)	5.65 (169)	11.52 (190)
1966	3.80 (662)	5.05 (662)	5.75 (662)	5.78 (662)	8.47 (283)
1967	3.33 (816)	4.65 (111)	6.40 (115)	6.40 (115)	12.14 (135)
1968	5.50 (F1)	8.80 (F1)	11.13 (F1)	11.13 (F1)	11.13 (F1)
1969	2.90 (813)	6.17 (800)	6.92 (800)	6.99 (800)	7.05 (800)
1970	4.50 (B17)	7.60 (286B)	9.39 (286B)	9.80 (286B)	10.89 (286)
1971	4.00 (43)	4.40 (43)	4.60 (624)	5.63 (361)	7.08 (715A)
1972	3.50 (293)	5.35 (663A)	5.86 (663A)	6.40 (254)	10.25 (733)
1973	3.40 (789)	5.66 (789)	5.90 (789)	7.50 (43)	9.10 (286 & F1)

TENNESSEE RIVER BASIN PRECIPITATION DURING 1973

Precipitation in Inches

<u>Month</u>	<u>Above Chattanooga 1973</u>	<u>Below Chattanooga 1973</u>	<u>Tennessee River Basin</u>			
			<u>1973</u>	<u>75-Yr</u>	<u>Deviation from Mean</u>	
					<u>Monthly</u>	<u>Cumulative</u>
January	3.80	5.31	4.50	4.88	-0.38	-0.38
February	3.27	4.41	3.80	4.84	-1.04	-1.42
March	9.52	13.49	11.37	5.61	+5.76	+4.34
April	5.06	6.65	5.80	4.48	+1.32	+5.66
May	7.49	6.87	7.20	4.08	+3.12	+8.78
June	4.88	4.61	4.75	4.24	+0.51	+9.29
July	4.90	5.00	4.94	4.91	+0.03	+9.32
August	3.67	2.17	2.97	4.17	-1.20	+8.12
September	3.64	2.76	3.23	3.20	+0.03	+8.15
October	2.83	3.27	3.03	2.84	+0.19	+8.34
November	6.57	8.36	7.40	3.57	+3.83	+12.17
December	6.58	5.58	6.11	4.76	+1.35	+13.52
Total	62.21	68.48	65.10	51.58		

Mean precipitation figures are for the period 1890-1964.

PRECIPITATION STATISTICS FOR SELECTED STATIONS

Precipitation in Inches

<u>Month</u>	<u>Long-Term</u>	<u>Maximum of Record</u>		<u>Minimum of Record</u>		<u>Year</u> 1973
	<u>Mean</u>	<u>Amount</u>	<u>Year</u>	<u>Amount</u>	<u>Year</u>	
<u>ELIZABETHTON, TENNESSEE (82 Years)</u>						
January	3.41	8.13	1947	0.46	1896	2.23
February	3.41	7.59	1944	0.46	1968	1.68
March	4.17	10.72	1899	1.37	1937	7.21
April	3.44	6.05	1912	0.65	1942	4.32
May	3.98	7.73	1915	1.08	1941	6.61
June	4.54	16.38	1872	1.33	1946	3.93
July	5.15	10.56	1896	1.10	1872	4.64
August	4.27	12.14	1901	0.89	1896	4.35
September	2.93	7.61	1928	0.30	1903	3.51
October	2.59	7.61	1918	0.02	1904	2.88
November	2.45	5.02	1948	0.61	1931	4.68
December	3.33	9.87	1872	0.30	1965	3.51
Annual	43.67	58.91	1928	29.06	1941	49.55

PRECIPITATION STATISTICS FOR SELECTED STATIONS (Continued)

Precipitation in Inches

<u>Month</u>	<u>Long-Term Mean</u>	<u>Maximum of Record Amount</u>	<u>Year</u>	<u>Minimum of Record Amount</u>	<u>Year</u>	<u>Year 1973</u>
<u>MURPHY, NORTH CAROLINA (99 Years)</u>						
January	5.54	14.85	1882	1.75	1907	3.90
February	5.64	15.10	1873	0.56	1906	3.57
March	6.21	15.34	1917	1.62	1967	8.05
April	4.83	15.40	1874	0.30	1915	5.79
May	4.03	11.25	1920	0.46	1941	7.93
June	4.90	9.31	1884	0.94	1964	6.02
July	5.70	13.42	1950	0.89	1957	5.30
August	4.97	13.96	1920	0.95	1953	4.92
September	3.34	8.04	1962	0.20	1876	4.33
October	3.06	9.27	1949	0.00	1963	1.71
November	3.81	13.18	1948	0.51	1924	5.37
December	5.19	12.98	1932	0.48	1965	6.15
Annual	57.22	84.80	1875	40.00	1940	63.04

CHATTANOOGA, TENNESSEE (95 Years)

January	5.24	14.74	1882	1.13	1961	5.09
February	5.03	12.30	1939	0.62	1941	3.76
March	5.92	14.05	1899	0.93	1910	13.80
April	4.66	15.29	1911	0.44	1942	5.17
May	3.86	12.00	1929	0.54	1941	6.37
June	3.99	9.40	1949	0.29	1931	4.58
July	4.71	13.49	1916	0.20	1957	6.93
August	3.74	12.36	1920	0.45	1929	2.58
September	3.19	12.19	1957	0.04	1919	5.38
October	3.00	11.91	1925	0.08	1938	3.69
November	3.61	13.59	1948	0.16	1890	5.87
December	5.16	13.68	1961	0.44	1889	8.34
Annual	52.14	72.37	1929	32.68	1904	71.56

LEWISBURG, TENNESSEE (80 Years)

January	5.13	17.05	1950	1.26	1943	4.55
February	5.04	13.14	1939	1.08	1941	3.67
March	5.93	15.94	1973	0.94	1910	15.94
April	4.61	12.60	1912	0.56	1915	5.67
May	4.23	12.01	1967	0.60	1941	8.12
June	3.93	13.46	1900	0.72	1899	4.37
July	4.63	9.85	1941	0.84	1954	5.24
August	3.90	11.40	1923	0.57	1909	1.46
September	3.17	12.41	1957	0.32	1927	1.77
October	2.99	8.88	1919	T	1963	4.94
November	3.81	10.27	1948	0.46	1953	9.89
December	4.90	11.71	1922	0.77	1958	5.20
Annual	52.27	70.82	1973	37.42	1904	70.82

PRECIPITATION STATISTICS FOR SELECTED STATIONS (Continued)

Precipitation in Inches

<u>Month</u>	<u>Long-Term Mean</u>	<u>Maximum of Record Amount</u>	<u>Year</u>	<u>Minimum of Record Amount</u>	<u>Year</u>	<u>Year 1973</u>
<u>MUSCLE SHOALS, ALABAMA* (90 Years)</u>						
January	5.08	13.09	1950	1.20	1961	5.77
February	5.00	13.64	1948	0.54	1941	4.35
March	5.82	16.15	1897	1.26	1910	13.91
April	4.64	16.07	1892	0.74	1930	5.04
May	4.00	11.29	1939	0.16	1941	3.74
June	4.00	13.87	1900	0.60	1897	7.43
July	4.54	14.60	1916	0.77	1935	4.15
August	3.73	10.60	1894	0.35	1948	2.92
September	3.03	7.87	1890	0.00	1897	1.54
October	2.66	11.05	1918	0.00+	1963	3.69
November	3.51	11.39	1948	0.16	1949	6.45
December	5.03	14.59	1926	0.83	1958	5.21
Annual	51.03	76.21	1932	30.92	1943	64.20

*Before December 1940 this station was at Florence, Alabama.

+Also minimum for 1924.

JOHNSONVILLE STEAM PLANT, TENNESSEE* (90 Years)

January	5.20	23.51	1937	0.44	1963	4.32
February	4.26	9.56	1939	0.73	1968	3.93
March	5.21	13.07	1927	0.59	1910	8.39
April	4.63	12.29	1892	0.53	1887	8.57
May	4.29	10.19	1909	0.48	1951	5.06
June	4.02	13.34	1928	0.37	1930	9.99
July	4.10	13.33	1972	0.06	1890	3.47
August	3.80	13.70	1914	0.34	1948	2.08
September	3.37	11.31	1921	0.00	1897	2.30
October	2.76	11.44	1919	0.00	1963	1.27
November	4.12	11.90	1906	0.74	1949	8.73
December	4.59	14.66	1926	0.05	1889	2.69
Annual	50.35	76.17	1950	32.48	1960	60.80

*Before August 1949 records collected at Johnsonville have been used.

PRECIPITATION STATISTICS FOR SELECTED STATIONS (Continued)

Precipitation in Inches

<u>Month</u>	<u>Long-Term Mean</u>	<u>Maximum of Record Amount</u>	<u>Year</u>	<u>Minimum of Record Amount</u>	<u>Year</u>	<u>Year 1973</u>
<u>HENDERSONVILLE, NORTH CAROLINA (77 Years)</u>						
January	4.54	12.40	1906	0.39	1907	5.46
February	4.64	10.73	1891	0.54	1930	5.54
March	5.40	11.67*	1952	0.96	1930	10.58
April	4.30	9.38	1920	0.43	1915	4.24
May	4.49	12.70	1942	0.95	1914	9.36
June	5.25	11.56	1934	0.96	1911	5.99
July	5.96	22.09	1916	1.72	1957	5.64
August	6.04	26.58	1901	0.49	1925	2.28
September	4.39	14.00	1906	0.22	1919	4.69
October	4.30	14.59	1918	0.01	1904	3.89
November	3.39	12.54	1948	0.21	1910	3.39
December	5.05	12.85	1918	0.23	1965	10.63
Annual	57.75	92.60	1901	32.55	1925	71.69

*Also maximum for March 1891.

KNOXVILLE, TENNESSEE (103 Years)

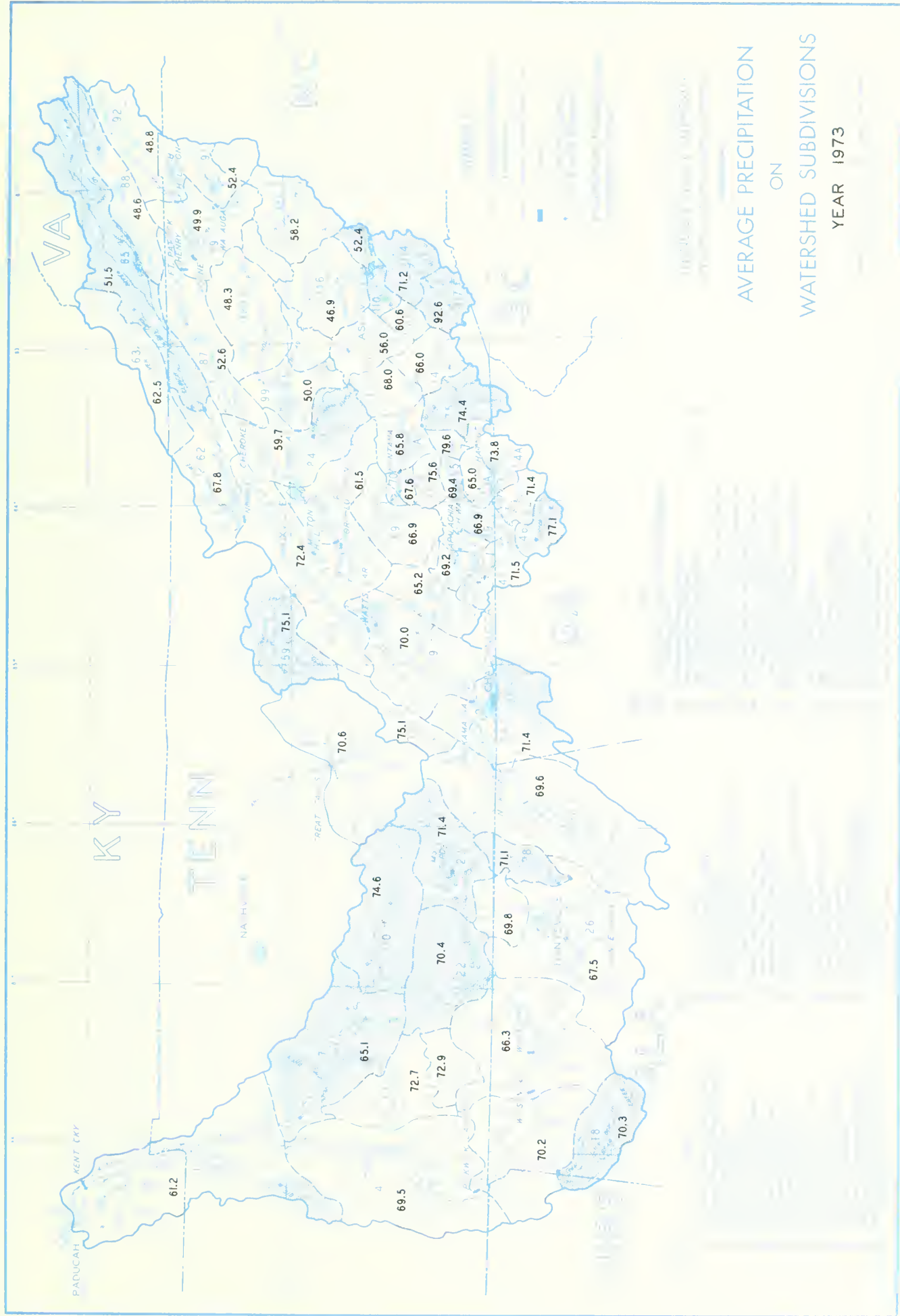
January	4.64	16.98	1882	1.29	1907	3.29
February	4.66	12.52	1873	0.56	1898	2.81
March	5.13	13.35	1917	0.72	1910	9.99
April	4.22	17.32	1874	0.70	1942	4.32
May	3.77	8.81	1938	0.71	1941	8.47
June	4.17	11.83	1928	1.39	1936	3.86
July	4.59	13.16	1917	0.69	1901	3.77
August	3.84	11.33	1920	1.10	1953	1.93
September	2.87	10.78	1944	0.18	1961	3.60
October	2.62	9.51	1925	0.00	1963	3.65
November	3.40	11.69	1948	0.17	1890	7.91
December	4.43	12.34	1901	0.47	1965	8.18
Annual	44.50	73.87	1875	33.67	1930	61.78

AVERAGE PRECIPITATION ON WATERSHED SUBDIVISIONS

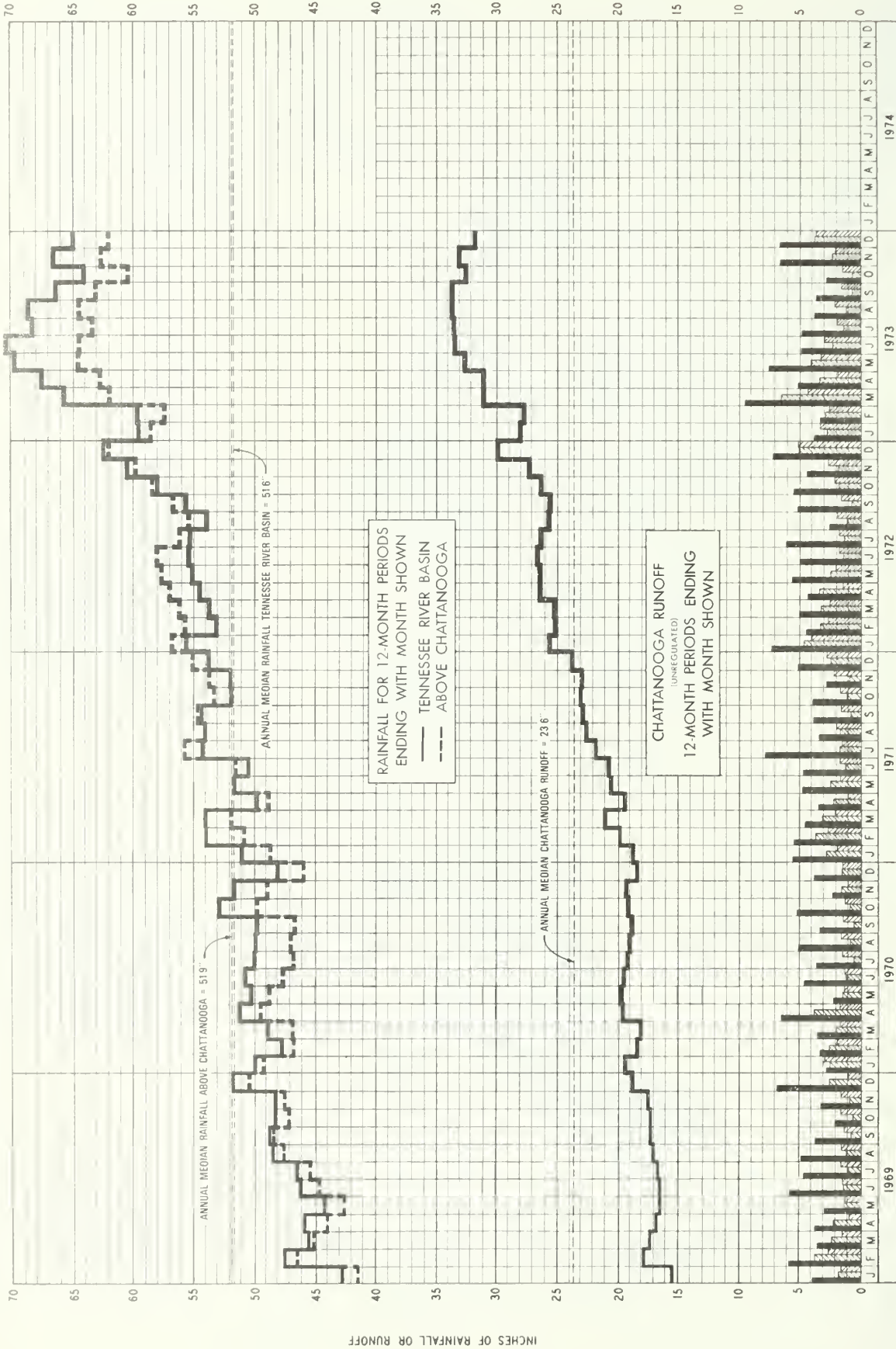
1973 MONTHLY AND ANNUAL

Subdivision	Average Precipitation - Inches												
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Entire Tennessee River Basin	4.50	3.80	11.37	5.80	7.20	4.75	4.94	2.97	3.23	3.03	7.40	6.11	65.10
	5.25	5.10	5.52	4.46	3.96	3.91	4.94	3.95	3.21	2.69	3.90	4.59	51.48
Area Above Chattanooga	3.80	3.27	9.52	5.06	7.49	4.88	4.90	3.67	3.64	2.83	6.57	6.58	62.21
	4.89	4.88	5.31	4.21	3.85	4.10	5.39	4.30	3.27	2.82	3.66	4.35	51.03
Area Below Chattanooga	5.31	4.41	13.49	6.65	6.87	4.61	5.00	2.17	2.76	3.27	8.36	5.58	68.48
	5.66	5.36	5.75	4.74	4.07	3.68	4.43	3.55	3.15	2.55	4.18	4.87	51.99
French Broad Above Newport	4.42	3.72	9.16	5.11	7.74	4.43	4.20	3.38	3.23	2.49	4.76	7.30	59.94
	4.25	4.37	5.12	4.17	3.83	4.55	5.71	5.32	3.76	3.43	3.42	3.86	51.79
French Broad Above Douglas Dam	3.76	3.10	8.71	4.93	6.94	4.41	3.99	3.76	3.08	2.43	4.84	6.09	56.04
	4.24	4.33	5.00	3.98	3.74	4.26	5.53	4.75	3.44	3.10	3.33	3.74	49.14
Holston Above Cherokee Dam	2.23	2.35	6.86	4.22	6.15	3.59	4.70	4.10	2.78	3.62	5.03	4.79	50.42
	3.93	3.91	4.39	3.57	3.79	3.77	5.19	4.02	2.93	2.48	3.03	3.44	44.45
Holston and French Broad Above Knoxville	3.22	2.80	8.09	4.72	6.72	4.09	4.21	3.97	2.94	2.93	5.16	5.67	54.52
	4.18	4.23	4.78	3.82	3.77	4.05	5.38	4.39	3.19	2.81	3.25	3.67	47.52
Little Tennessee Above Mcghee	4.96	4.41	10.65	6.30	8.04	5.40	5.47	4.45	3.51	2.09	6.44	7.78	69.50
	5.96	5.57	6.41	4.96	4.19	4.67	5.97	5.06	3.64	3.29	4.29	5.20	59.61
Little Tennessee Above Fontana Dam	5.30	4.90	10.19	6.36	8.88	5.29	4.80	4.26	3.36	1.95	6.09	8.54	69.92
	6.00	6.07	6.51	5.03	4.15	4.69	5.99	5.21	3.86	3.45	4.23	5.31	60.50
Clinch Above Norris Dam	2.25	2.66	8.00	4.32	7.05	4.79	4.37	3.66	3.27	3.89	8.13	5.92	58.31
	4.44	4.30	4.85	3.67	3.81	3.96	5.22	3.94	2.85	2.40	3.34	3.91	46.69
Hivasssee Above Charleston	4.68	3.93	9.97	5.95	8.52	5.76	6.15	3.99	5.00	1.93	6.50	7.13	69.51
	5.78	5.84	6.18	5.09	4.06	4.35	5.72	4.69	3.53	3.08	4.15	5.12	57.59
Hivasssee Above Hivasssee Dam	4.74	4.26	8.50	6.22	9.49	5.99	5.53	4.89	4.34	1.65	6.22	7.27	69.10
	5.79	5.92	6.26	5.24	4.14	4.60	6.03	4.97	3.67	3.20	4.06	5.12	59.00

Note: 35-Year Averages Based on 1935-1969 Averages.



INCHES OF RAINFALL OR RUNOFF



SYMBOLS:

- MONTHLY RAINFALL ABOVE CHATTANOOGA
- ▨ MONTHLY RUNOFF AT CHATTANOOGA (UNREGULATED)
- ▧ ACTUAL MONTHLY RUNOFF AT CHATTANOOGA (REGULATED)

RAINFALL AND RUNOFF
IN THE

TENNESSEE RIVER BASIN

MONTHLY AND ANNUAL RAINFALL AND RUNOFF
TENNESSEE RIVER ABOVE CHATTANOOGA, TENNESSEE

Drainage Area - 21,400 Square Miles

	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>Apr.</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>	<u>Annual</u>
<u>Rainfall in Inches, 1890 -- 1973</u>													
1973	3.80	3.27	9.52	5.06	7.49	4.88	4.90	3.67	3.64	2.83	6.57	6.58	62.21
Maximum	10.32	9.69	11.40	7.49	7.95	8.67	11.07	13.33	7.69	8.37	10.30	9.98	64.09
Minimum	1.42	0.85	1.37	0.95	0.80	1.73	2.02	1.25	0.77	0.04	0.44	0.54	37.23
Mean ^a	4.57	4.71	5.38	4.20	4.04	4.45	5.27	4.50	3.26	2.90	3.28	4.55	51.11
Median ^a	4.23	4.47	5.15	4.15	3.80	4.49	5.07	4.15	3.21	2.48	3.13	4.20	51.94

a. For Period 1890 -- 1964.

Runoff in Inches, 1874 -- 1973
(Unregulated)

1973	2.74	2.92	6.44	3.36	4.02	2.31	1.41	1.16	0.72	0.64	2.35	3.73	31.80
Maximum	9.42	7.45	9.62	7.11	5.28	3.75	3.90	4.28	2.69	3.17	3.77	5.11	36.54
Minimum	0.50	0.62	1.30	1.01	0.61	0.50	0.45	0.26	0.21	0.30	0.30	0.41	11.22
Mean ^b	3.03	3.27	3.81	2.98	1.99	1.42	1.32	1.13	0.84	0.80	1.10	1.93	23.62
Median ^b	2.76	3.11	3.28	2.73	1.76	1.26	1.11	0.96	0.69	0.70	0.84	1.68	23.61

b. For Period 1874 -- 1964.

Runoff in Cubic Feet Per Second, 1874 -- 1973
(Unregulated)

1973	51,000	60,100	119,600	64,400	74,700	44,400	26,100	21,500	13,800	11,900	45,100	69,200	50,150
Maximum	174,800	147,800	178,500	136,400	98,000	72,000	72,300	79,400	51,500	58,900	72,400	94,800	57,600
Minimum	9,200	12,700	24,100	19,400	11,300	9,600	8,300	4,760	3,990	5,510	5,800	7,700	17,690
Mean ^b	56,200	66,600	70,700	57,200	36,900	27,200	24,500	21,000	16,100	14,800	21,100	35,800	37,200
Median ^b	51,200	63,400	60,900	52,400	32,700	24,200	20,600	17,800	13,200	13,000	16,100	31,200	37,200

b. For Period 1874 -- 1964.

RAINFALL AND RUNOFF DATA FOR SELECTED GAGED WATERSHEDS

Stream	Station	Drainage Area sq. mi.	January 1 - December 31, 1973			Runoff in Percent of Rainfall	Rainfall Minus Runoff inches
			Rain- fall inches	Departure ^a inches	Runoff inches		
Big Sandy River	Bruceton	205	67.6	+16.2	32.1	47.5	35.5
Duck River	Hurricane Mills	2571	69.8	+19.0	38.8	55.6	31.0
Bear Creek	Bishop	667	70.3	+16.5	38.1 ^b	54.2	32.2
Elk River	Prospect	1784	70.9	+16.9	38.7 ^b	54.6	32.2
Paint Rock River	Woodville	320	71.1	+15.4	45.0	63.3	26.1
South Chickamauga Creek	Chickamauga	428	69.1	+15.7	35.3	51.1	33.8
Toccoa River	Dial	177	80.7	+15.4	55.5	68.8	25.2
Sewee Creek	Decatur	117	67.2	+14.9	36.2	53.9	31.0
Emory River	Oakdale	764	75.1	+22.7	43.3	57.7	31.8
Clinch River	Tazewell	1474	51.5	+6.5	23.2	45.0	28.3
Little Tennessee River	Needmore	436	74.4	+12.5	45.6	61.3	28.8
North Fork Holston River	Saltville	222	48.4	+7.2	22.3	46.1	26.1
Little Pigeon River	Sevierville	353	60.1	+5.8	27.8	46.3	32.3
French Broad River	Asheville	945	72.5	+14.2	42.4	58.5	30.1

a. Rainfall and runoff departures are referred to the 35-year period 1935-1969, except runoff departures for Paint Rock River, 1936-1969.

b. Partially regulated.

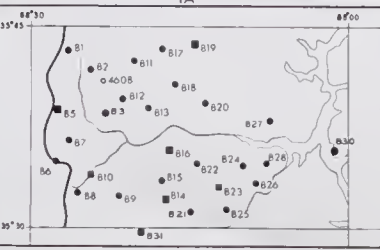
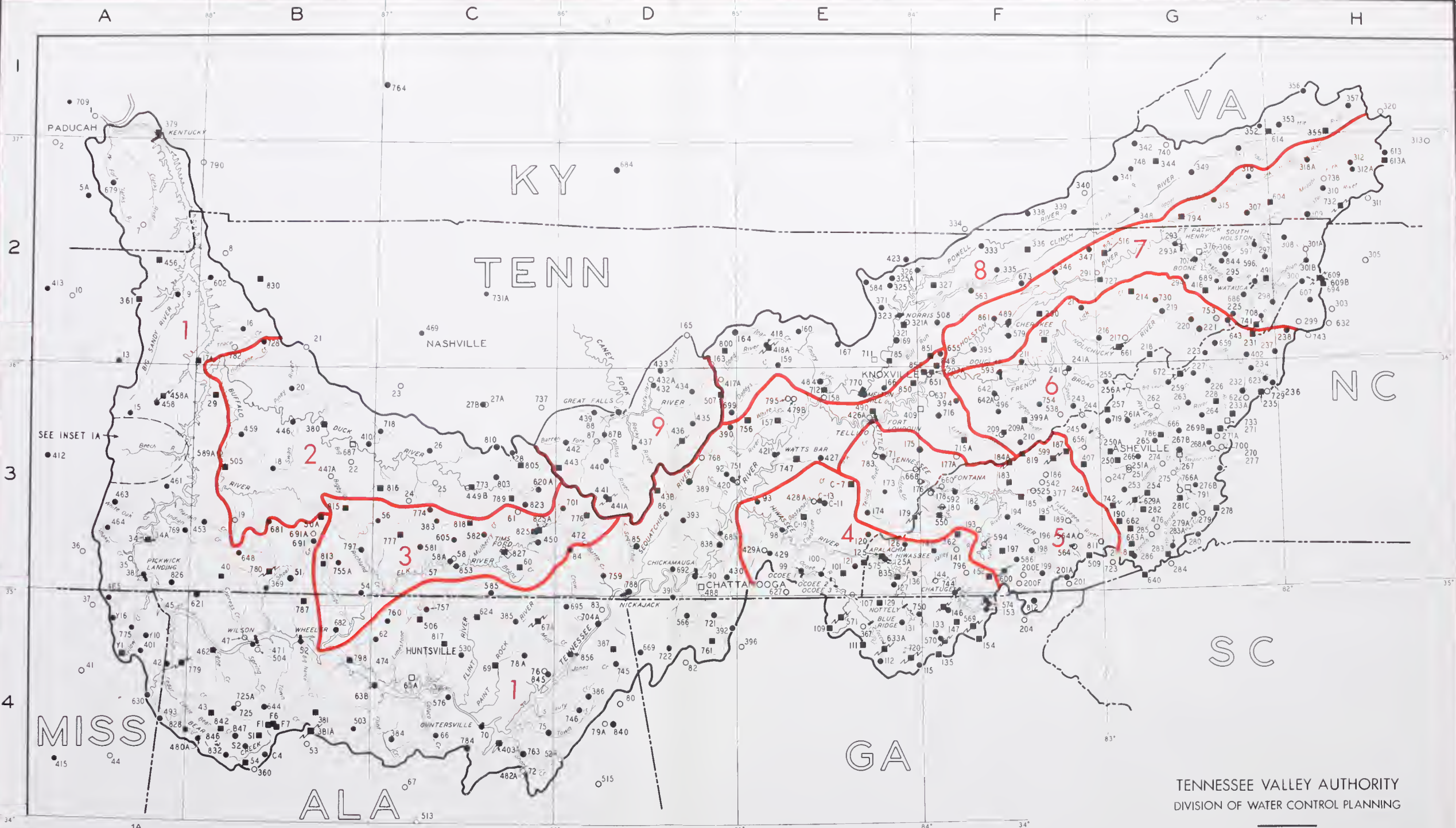
Locations of watersheds are shown on map "Average Precipitation on Watershed Subdivisions." Runoff data are furnished by the U.S. Geological Survey and are tentative.

EVAPORATION DATA—YEAR 1973

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Evaporation (Inches)												
Murphy, North Carolina	*	*	2.62	3.26	5.09	5.36	5.03	4.90	3.71	2.55	1.58	*
Jefferson City, Tennessee			2.68	3.58	4.81	5.30	5.81	5.14	4.13	2.98	1.70	
Pulaski, Tennessee			3.07 ^a	4.90	5.90	6.24	5.89	5.99	4.42	3.81	2.00	
Fletcher, North Carolina			-	3.96 ^a	5.81	4.37 ^a	4.99 ^a	4.73 ^a	4.00	2.63	1.89 ^a	
Precipitation (Inches)												
Murphy, North Carolina			8.05	5.79	7.93	6.02	5.30	4.92	4.33	1.71	5.37	
Jefferson City, Tennessee			8.85	4.90	6.21	2.75	3.38	5.10	1.80	2.49	7.14	
Pulaski, Tennessee			14.68	5.05	6.36	2.60	5.85	2.17	2.70	4.52	9.16	
Fletcher, North Carolina			-	5.32	9.43	-	9.16	6.82	2.37	3.78	4.59	
Average Air Temperature (Degrees F)												
Murphy, North Carolina			52	53	60	70	74	71	68	56	49	
Jefferson City, Tennessee			52	54	61	72	75	73	73	62	51	
Pulaski, Tennessee			56	56	62	74 ^b	76 ^b	74	72	62	53	
Fletcher, North Carolina			-	52	60	70	72	71	69	57	50	
Average Water Temperature (Degrees F)												
Murphy, North Carolina			54	58	68	81	83	81	76	64	52	
Jefferson City, Tennessee			56	58	67	81	82	81	76	65	51	
Pulaski, Tennessee			59	61 ^b	70	82 ^b	84 ^b	81	76	66	55 ^b	
Fletcher, North Carolina			-	58 ^b	66	78 ^b	80 ^b	77	74	61	52 ^b	
Average Relative Humidity (Percent)												
Murphy, North Carolina			85	81	81	89	92	89	91	87	86	
Jefferson City, Tennessee			80	74	74	83	84	85	82	79	82	
Pulaski, Tennessee			82	79	77	83 ^b	86 ^b	83	84	82	83	
Fletcher, North Carolina			-	72	72	87 ^b	88 ^b	89	89	81	80	
Average Wind Velocity (Miles Per Hour)												
Murphy, North Carolina			0.90	1.08	0.62	0.24	0.22	0.24	0.26	0.30	0.67	
Jefferson City, Tennessee			1.09	1.46	1.09	0.67	0.75	0.61	0.64	0.65	1.11	
Pulaski, Tennessee			2.49	2.24	1.52	1.02	0.85 ^b	0.81	1.01	0.96	1.65	
Fletcher, North Carolina			-	1.90	1.56	0.65 ^b	0.95 ^b	0.81	0.82	0.99	1.67	

^a = Partial record^b = Partly estimated

* = Discontinued for winter season - January, February, and December



BEECH RIVER WATERSHED

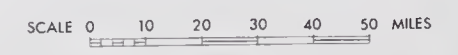
LEGEND

Nonrecording rain gages	●	T. V. A.	○	N. W. S. and Other Agencies	□
Recording rain gages	■				
Radio rain gages	▲				
Dams	—				

Red numbers denote the respective tables in which records of rainfall stations within the areas shown are listed.

TENNESSEE VALLEY AUTHORITY
DIVISION OF WATER CONTROL PLANNING

TENNESSEE RIVER BASIN INDEX TO RAINFALL STATIONS



STATIONS AS OF JULY 1973

Figures in the "mean or normal" column in the following tabulation are determined as follows: For the National Weather Service stations, the figures are normals based on the 30-year period 1931-1960, computed by the Weather Service. For TVA and other agency stations with 21 or more years of record through 1969, the figures are long-term means adjusted to the 35-year period 1935-1969. For stations with 5 to 20 years of record in 1969, the figures are running averages for the period of record. No means are listed for records of less than 5 complete years.

TABLE 1
PRECIPITATION
IN
WATERSHED SUBDIVISION NO. 1
TENNESSEE RIVER AND MINOR TRIBUTARIES
MOUTH TO KNOXVILLE

Sta. No.	Station Name and Location	Index Owner	Elev.	Yrs. of Record	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		YEAR	Total Nor ¹	Depth of Snow (inches)	
					Total	Nor ¹	Total	Nor ¹	Total	Nor ¹	Total	Nor ¹	Total	Nor ¹	Total	Nor ¹	Total	Nor ¹	Total	Nor ¹	Total	Nor ¹	Total	Nor ¹	Total	Nor ¹	Total	Nor ¹				Total
TENNESSEE RIVER MOUTH TO WHEELER DAM-SUBDIVISION NO. 1																																
1	PAUCAM STEAM PLANT	A-1 NMS	355	92	3.63	4.74	2.23	3.76	6.57	4.86	10.11	4.26	7.88	4.40	3.45	3.78	2.74	3.48	0.98	3.32	1.01	3.12	1.80	2.76	0.79	3.46	5.22	3.56	55.41	46.05	3.7	
702	LAKEVIEW DAM	A-2 NMS	475	49	3.82	4.92	2.48	4.13	7.15	5.14	8.54	4.36	9.37	4.20	4.38	3.74	4.70	3.52	1.83	3.25	3.38	3.08	2.29	3.13	10.50	4.60	6.03	4.01	67.77	47.34		
379	WATKINS DAM	A-2 TVA	360	36	3.30	4.00	1.42	3.50	6.37	5.03	9.37	4.15	6.87	4.15	3.12	3.37	3.37	2.68	1.65	3.00	2.53	3.00	2.81	2.35	10.97	3.73	3.31	3.67	58.51	47.77		
379	WATKINS DAM	A-2 TVA	360	22	4.25	4.80	1.42	3.38	6.44	5.07	9.31	7.92	4.31	3.20	3.84	3.37	2.68	1.65	1.55	2.23	2.63	2.54	2.81	2.35	10.97	3.73	3.31	3.67	58.51	47.77		
379	WATKINS DAM	A-2 TVA	360	30	4.51	5.00	3.44	4.22	8.55	5.38	9.42	4.59	7.65	4.50	1.92	3.62	2.97	4.34	2.46	3.00	3.69	3.22	3.60	2.75	10.77	3.58	4.03	4.17	61.74	49.63	6.8	
7	MURRAY T	A-2 NMS	412	48	5.77	5.19	3.58	4.09	8.20	5.30	9.08	4.12	9.69	4.19	5.80	3.50	3.17	4.45	2.63	3.25	3.25	3.45	3.20	2.87	9.90	4.00	3.59	4.10	71.46	47.62	6.2	
700	UGLIN POND	A-2 NMS	400	21	4.23	3.74	2.68	4.09	6.50	4.60	7.26	4.64	6.83	4.53	1.90	3.51	3.17	4.45	4.91	2.84	1.67	3.38	2.44	2.58	9.66	4.63	3.76	4.15	58.41	48.40	1.5	
8	OVER	B-2 NMS	492	76	5.26	3.74	4.83	4.20	8.33	5.25	7.29	3.87	9.37	3.99	4.17	3.99	4.17	4.45	2.45	3.44	3.44	3.73	2.76	2.73	9.83	4.17	3.03	4.19	59.54	48.74	2.5	
602	CUMBERLAND STEAM PLANT R	B-2 TVA	400	6	4.48	3.85	3.22	4.48	8.44	4.65	7.46	4.64	5.51	4.79	5.79	3.12	1.51	4.29	2.04	3.62	1.56	4.70	3.12	3.62	8.55	5.00	3.54	5.31	54.56	51.67		
830	DOCK FIRE TOWER NEAR	B-2 TVA	410	31	7.05	5.64	3.47	4.87	13.54	5.74	1.34	4.48	8.54	4.22	4.44	3.90	3.88	4.09	3.61	2.01	3.37	3.31	2.73	2.38	8.39	4.55	3.66	4.40	57.37	50.66	9.0	
456	BUCHANAN R	A-2 TVA	435	34	6.04	4.72	3.25	4.45	6.34	5.85	8.33	4.23	7.66	4.00	3.73	3.88	3.85	4.03	1.74	2.81	2.81	3.11	1.69	2.58	8.67	4.13	3.67	4.65	57.37	50.66		
379	WATKINS DAM	A-2 TVA	360	59	5.18	5.69	3.49	4.35	8.64	5.39	8.39	4.22	6.62	4.18	3.44	4.09	3.63	4.09	1.56	3.30	1.87	3.44	2.74	2.48	8.34	4.22	3.52	4.25	56.16	48.16	5.0	
379	WATKINS DAM	A-2 TVA	360	47	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89	4.35	7.33	5.33	8.95	4.31	5.68	4.54	3.54	3.54	3.54	4.44	2.96	2.96	3.49	3.28	2.41	2.41	7.78	4.60	3.47	4.44	64.11	48.16	5.0	
15	WATKINS DAM	A-2 TVA	430	44	5.92	5.41	4.89</																									

Sta. No.	Station Name and Location	Index Owner	Elev.	Yrs. of Record	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	YEAR	Depth of Snow (Inches)														
					Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total															
TENNESSEE RIVER-WHEELER DAM TO KNOXVILLE-SUBDIVISION NO. 1 CONTINUED																																
394	PROVIDENCE ES	F-3 TVA	1100	35	2.43	4.24	5.20	5.47	3.43	7.13	3.42	6.36	3.10	3.09	4.64	4.93	2.48	3.08	2.45	6.98	3.77	8.21	4.17	6.76	47.11	6.7						
716	MILWOOD ES	F-3 TVA	940	23	3.20	4.55	5.12	9.75	5.55	5.95	4.38	6.42	3.52	5.52	4.54	4.63	4.83	1.90	2.76	1.90	6.32	4.32	5.52	4.98	59.52	51.84	7.0					
715A	TOWNSHIP ES	F-3 TVA	1070	23	3.42	4.54	4.58	8.82	5.21	4.39	4.59	4.54	3.99	4.51	4.85	4.53	5.51	1.94	2.73	1.94	5.91	3.94	3.58	4.14	53.24	51.21						
850	BEARDER R AK ES	F-3 TVA	900	3	3.33	2.72	10.77	4.56	8.65	3.89	5.31	1.39	3.61	3.61	7.92	8.48	6.51	3.54	4.06	2.47	7.07	3.69	8.18	4.22	63.52	47.78	5.0					
852	LEASDALE R AK ES	F-3 TVA	860	2	3.36	2.84	10.65	4.14	7.06	4.16	5.19	2.46	3.44	3.44	7.91	8.45	6.51	3.54	4.06	2.47	7.07	3.69	8.18	4.22	63.52	47.78	5.0					
651	UNIV TENN GEOLOGY BLDG 2 ES	F-3 UT	974	103	3.29	4.85	10.77	4.56	8.65	3.89	5.31	1.39	3.61	3.61	7.92	8.48	6.51	3.54	4.06	2.47	7.07	3.69	8.18	4.22	63.52	47.78	5.0					
207A	KNOXVILLE EVANS BUILDING 1 R ES	F-3 TVA	970	20	3.38	4.08	9.90	4.76	7.43	3.56	3.08	3.78	3.29	4.05	2.73	3.00	3.55	2.97	3.62	2.60	6.98	3.43	6.80	4.73	72.34	45.05						
840	PLANTATION HILLS R AK ES	F-2 TVA	1110	2	3.46	2.80	10.77	4.56	8.65	3.89	5.31	1.39	3.61	3.61	7.92	8.48	6.51	3.54	4.06	2.47	7.07	3.69	8.18	4.22	63.52	47.78	5.0					
831	FOUNTAIN CITY R AK ES	F-2 TVA	1110	2	3.46	2.80	10.77	4.56	8.65	3.89	5.31	1.39	3.61	3.61	7.92	8.48	6.51	3.54	4.06	2.47	7.07	3.69	8.18	4.22	63.52	47.78	5.0					
655	RITTA ES	F-2 TVA	1030	29	4.07	4.95	3.02	5.27	11.05	5.38	7.02	4.12	6.81	3.76	2.39	3.40	2.63	4.96	4.22	3.55	2.11	2.93	4.37	2.49	6.71	49.81						
BEECH RIVER WATERSHED (SEE INSET 1A)																																
81	CENTER RIDGE CHURCH R	A-3 TVA	545	21	4.92	4.23	5.15	4.84	9.03	5.05	10.35	5.10	6.74	4.56	7.94	4.38	2.77	4.06	1.40	3.08	4.17	3.61	1.54	2.59	9.05	3.93	2.99	4.53	66.05	49.04		
83	LEXINGTON R	A-3 TVA	455	21	5.10	4.23	4.46	4.82	9.40	5.17	5.45	4.35	7.26	3.97	7.26	3.97	5.19	4.25	2.07	2.89	2.55	3.49	1.64	2.61	0.68	4.05	2.93	4.30	62.31	48.65	3.5	
460R	LEXINGTON, TENN	A-3 NWS	529	11	5.16	3.10	5.17	3.92	8.84	5.10	9.15	5.12	6.33	4.66	7.19	3.77	3.98	4.81	2.07	2.79	2.48	3.31	1.50	2.97	10.68	4.01	3.16	4.64	66.21	48.72		
88	STEGALL, NEAR	A-3 TVA	520	21	6.34	4.77	4.88	5.59	11.01	5.65	12.39	5.52	7.03	4.96	5.38	3.95	5.35	4.36	3.54	3.55	2.31	3.66	2.67	2.88	9.60	4.54	4.07	5.13	74.57	54.96	6.0	
812	OKR GROVE R (TVA 519)	A-3 TVA	550	23	5.77	5.68	4.78	4.98	8.47	5.09	8.47	5.09	6.44	4.74	9.40	3.42	3.42	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	
810	CRISTOPHER R	A-3 TVA	455	21	5.21	4.66	4.18	4.59	9.37	5.09	9.40	5.27	6.44	4.74	9.40	3.40	6.37	4.17	1.23	3.52	1.61	3.11	1.66	2.59	9.39	3.51	3.37	4.52	68.43	49.40		
817	NICHET TRAIL R	A-3 TVA	490	21	5.88	4.40	4.74	4.87	8.56	5.04	10.63	5.10	5.69	4.33	9.40	3.40	6.37	4.17	1.23	3.52	1.61	3.11	1.66	2.59	9.39	3.51	3.37	4.52	68.43	49.40		
821	SCOTT'S HILL (TVA 724)	A-3 TVA	480	21	5.39	4.68	4.17	4.97	9.17	5.19	10.32	5.38	6.73	4.99	3.36	3.68	7.75	4.51	3.68	3.00	1.40	3.07	3.78	2.74	8.93	4.05	4.12	4.99	69.62	49.14		
820	PERNNVILLE (TVA 301)	A-3 TVA	300	78	5.39	6.25	4.23	4.85	10.42	5.44	6.55	4.73	7.45	4.20	6.50	3.84	4.59	3.91	3.08	3.00	1.40	3.07	3.78	2.74	8.93	4.05	4.12	4.99	69.62	49.14	6.5	
831	REAGAN R (TVA 31)	A-3 TVA	570	52	5.73	5.64	4.25	4.87	9.69	5.13	10.27	4.69	6.74	4.29	5.36	3.74	4.69	3.88	1.76	3.41	1.20	2.94	3.01	2.36	8.71	4.10	3.70	4.44	67.11	49.39	5.0	
(*) INTERPOLATED OR PARTLY INTERPOLATED (R) RECORDED AT PRESENT (DP) DIGITAL PUNCH																																

TABLE 2
PRECIPITATION
IN
WATERSHED SUBDIVISION NO. 2
DUCK RIVER

TABLE 3
PRECIPITATION
IN
WATERSHED SUBDIVISION NO. 3
ELK RIVER

TABLE 4
PRECIPITATION
IN
WATERSHED SUBDIVISION NO. 4
HIWASSEE RIVER

TABLE 5
PRECIPITATION
IN
WATERSHED SUBDIVISION NO. 5
LITTLE TENNESSEE RIVER

[illegible]

(#) INTERPOLATED OR PARTLY INTERPOLATED (R) RECORDER AT PRESENT (DP) DIGITAL PUNCH

RECORDED AT PRESENT

(DP) DIGITAL PUNCH

TABLE 6
PRECIPITATION
IN
WATERSHED SUBDIVISION NO. 6
FRENCH BROAD RIVER

TABLE 7
PRECIPITATION
IN
WATERSHED SUBDIVISION NO. 7
HOLSTON RIVER

TABLE 8
PRECIPITATION
IN
WATERSHED SUBDIVISION NO. 8
CLINCH RIVER

TABLE 9
PRECIPITATION
IN
WATERSHED SUBDIVISION NO. 9
CANEEY FORK ABOVE GREAT FALLS DAM

ANNUAL 1973 PRECIPITATION - In Inches

TENNESSEE VALLEY AUTHORITY

DIVISION OF WATER CONTROL PLANNING

Sta No.	Station Name and Location	Index Owner	Elev	Yrs. of Record	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	YEAR	Depth of Snow (Inches)
					Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	
CANBY FERN. ABOVE GREAT FALLS DAM-SUBDIVISION NO. 9																		
48	GREAT FALLS POWERHOUSE	0-3 TVA	860	60	3.10	5.55	12.24	5.52	11.23	4.11	4.41	3.93	3.63	3.10	2.44	7.19	7.17	6.1
49	CIBBELE	0-3 TVA	950	34	4.10	5.45	12.53	5.57	11.33	4.25	3.05	4.23	3.98	3.47	2.57	6.31	6.31	5.4
737	WOODBURY	0-3 TVA	725	20	4.61	4.39	13.52	5.89	10.40	5.17	6.27	5.78	4.18	3.65	4.16	5.16	5.16	4.2
440	IRVING COLLEGE	0-3 TVA	1050	34	3.30	4.67	12.54	4.86	10.79	5.17	5.78	3.79	3.43	3.05	2.11	6.44	6.44	4.0
441	ALBANY	0-3 TVA	1920	22	4.50	5.45	13.40	5.42	11.20	4.26	5.90	4.46	4.50	3.10	4.32	5.17	5.17	4.2
87	MEMPHISVILLE X	0-3 TVA	1015	91	3.52	5.70	12.17	5.34	11.31	5.40	5.09	4.12	3.12	3.50	4.13	3.49	3.49	4.2
87F	MEMPHISVILLE	0-3 TVA	1000	32	3.22	5.41	12.68	5.24	10.50	5.49	6.88	5.04	3.56	4.11	4.72	4.65	4.11	4.2
443	MEMPHISVILLE R	0-3 TVA	1120	34	3.75	5.45	10.93	5.35	8.00	4.16	7.77	4.71	3.84	3.52	4.31	4.71	4.71	4.5
444	SUMMITVILLE R	0-3 TVA	1120	34	3.64	5.57	12.40	5.63	10.09	5.46	6.53	4.17	3.44	3.42	2.28	7.24	7.24	5.1
437	SCAPE TOWER	0-3 TVA	980	34	3.46	5.55	12.47	5.50	10.31	5.31	4.61	4.50	3.44	3.65	4.19	4.64	4.64	4.5
438	SPARTA	0-3 TVA	900	57	5.53	5.23	12.38	5.28	9.25	4.16	6.12	4.62	3.53	3.55	4.64	4.64	3.8	
432A	SPARTA#1	0-3 TVA	980	30	3.84	5.2	12.89	5.46	9.13	4.11	7.04	5.05	3.47	3.90	4.26	4.07	4.07	4.0
432B	SPARTA#2	0-3 TVA	980	30	3.84	5.2	12.89	5.46	9.13	4.11	7.04	5.05	3.47	3.90	4.26	4.07	4.07	4.0
433	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
434	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
435	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
436	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
437	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
438	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
439	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
440	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
441	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
442	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
443	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
444	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
445	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
446	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
447	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
448	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
449	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
450	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
451	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
452	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
453	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
454	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
455	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
456	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
457	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
458	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
459	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
460	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
461	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
462	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
463	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
464	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
465	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
466	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
467	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
468	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
469	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
470	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
471	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
472	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
473	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
474	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
475	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
476	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
477	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
478	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
479	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
480	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
481	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
482	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
483	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
484	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
485	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
486	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
487	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
488	WOLF CREEK	0-3 TVA	1440	34	4.51	4.46	13.46	5.12	11.29	4.21	5.41	5.10	3.69	3.73	4.15	4.15	3.8	
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TABLE 10
PRECIPITATION
UNCLASSIFIED STATIONS

ANNUAL 1973 PRECIPITATION - In Inches

DIVISION OF WATER CONTROL PLANNING

Sta No.	Station Name and Location	Index Owner	Elev.	Yrs. of Record	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		YEAR		Depth of Snow (inches)	
					Total	Nor.'l	Total	Nor.'l	Total	Nor.'l	Total	Nor.'l	Total	Nor.'l	Total	Nor.'l	Total	Nor.'l	Total	Nor.'l	Total	Nor.'l	Total	Nor.'l	Total	Nor.'l	Total	Nor.'l	Total	Nor.'l		Total
UNCLASSIFIED STATIONS																																
414A	MURPHIS AP R XX	NWS	263	103	4.62	6.07	3.62	4.68	7.63	5.07	9.44	4.63	6.23	4.23	1.00	3.68	4.49	3.46	4.88	2.97	5.06	2.82	3.37	2.72	8.49	4.38	5.15	4.53	64.18	47.04	0.2	
413	MARTIN SUBSTA	A-2 TVA	384	35	4.81	5.26	3.78	4.65	6.14	5.71	9.03	4.69	6.97	4.40	3.55	4.36	3.25	4.43	2.99	2.72	1.23	3.48	2.27	7.67	4.19	4.20	4.17	51.72	50.79	2.1		
412	JACKSON SUBSTA	A-3 TVA	350	35	6.20	6.05	4.80	5.05	8.54	5.28	11.52	4.97	6.46	4.26	2.68	4.03	3.23	4.21	2.69	3.31	4.14	3.43	1.10	7.67	4.19	4.20	4.17	51.72	50.79	2.1		
415	TURELO SUBSTA	A-4 TVA	256	35	6.10	5.53	3.66	5.22	14.23	6.28	6.72	4.68	4.53	3.91	2.68	3.70	7.33	4.35	3.55	2.91	0.55	3.11	2.11	2.34	9.53	4.35	4.16	4.07	62.91	51.60	4.5	
44	PUISON	A-6 NWS	315	65	6.16	5.48	3.91	5.16	10.25	6.40	8.27	4.88	4.32	4.11	4.53	3.60	6.38	4.75	4.88	3.16	1.67	3.18	3.13	2.46	7.31	4.38	4.64	5.05	75.06	53.75	4.5	
75A	PARADISE STEAM PLANT	C-1 TVA	419	14	2.47	2.33	2.46	3.68	6.66	5.34	5.83	4.52	6.13	3.95	2.47	4.89	2.20	3.98	3.46	3.47	1.82	3.10	2.83	2.76	12.40	4.17	3.65	4.12	52.37	47.04	1.8	
469	SOUTH NASHVILLE SUBSTA	C-2 TVA	504	33	7.57	5.47	3.96	5.52	10.26	5.60	6.74	5.05	4.48	3.86	3.70	3.48	7.08	4.56	3.48	3.22	3.32	3.00	2.42	2.40	1.93	3.46	3.83	4.10	64.62	47.67	4.5	
513	GARDEN CITY	C-4 NWS	504	33	7.57	5.47	3.96	5.52	10.26	5.60	6.74	5.05	4.48	3.86	3.70	3.48	7.08	4.56	3.48	3.22	3.32	3.00	2.42	2.40	1.93	3.46	3.83	4.10	64.62	47.67	4.5	
731A	GALLATIN STEAM PLANT	C-2 TVA	410	21	3.37	4.19	3.59	4.65	10.45	5.14	6.18	4.54	6.69	4.35	4.04	3.64	5.20	4.54	3.47	3.27	1.86	3.10	2.69	2.47	9.02	3.78	4.15	4.61	44.11	44.38	8.4	
68A	SUMNER SHADE SUBSTA	O-2 TVA	500	26	3.12	5.13	3.68	4.41	9.36	5.42	6.48	4.55	7.04	4.15	4.00	3.67	7.07	5.59	1.95	3.04	1.52	3.48	2.87	2.50	8.69	4.79	4.38	4.71	61.74	51.92	8.4	

(*) INTERPOLATED OR PARTLY INTERPOLATED (R) RECORDER AT PRESENT (DP) DIGITAL PUNCH

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